REC'D	20	DEC	2004
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Appl	licantia	25 0005	No file reference	1		· · · · · · · · · · · · · · · · · · ·		
Applicant's or agent's file reference Moo2/02		FOR FURTHER A	CTION	See Notificatio Preliminary Ex	n of Transmittal of International amination Report (Form PCT/IPEA/416)			
l =		International filing date 24.09.2002	(day/mon	th/year)	Priority date (day/month/year) 24.09.2002			
	International Patent Classification (IPC) or both national classification and IPC C07D401/04							
C07	70401.	/04						
<u></u>								
	Applicant MOREPEN LABORATORIES LIMITED et al.							
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 								
2.	2. This REPORT consists of a total of 5 sheets, including this cover sheet.							
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					∍ y		
	Thes		exes consist of a total of					
3.	This	report	contains indications re	elating to the following it	ems:			
	1	\boxtimes	Basis of the opinion					
	!!		Priority					
	111		Non-establishment of	opinion with regard to n	ovelty, i	nventive step a	nd industrial applicability	
	IV		Lack of unity of invent					
	V		Reasoned statement unitations and explanations	under Rule 66.2(a)(ii) w ions supporting such st	ith regare atement	d to novelty, in	ventive step or industrial applicability;	
	VI		Certain documents cit					
	VII		Certain defects in the	international applicatior	1			
	VIII		Certain observations of	on the international app	lication			

Date of submission of the demand			Date of	completion of th	is report			
05.04.2004			16.12.	.2004				
Nam	Name and mailing address of the international preliminary examining authority:			Authoria	zed Officer			
European Patent Office				G				
D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d			Basto	n, E	į o) 	şş tü Pat		
-	<u> </u>	Fax:	+49 89 2399 - 4465	aa apina a	Telepho	one No. +49 89 2	2399-8229	ş ^{\$}
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IN 02/00193

 Basis of the rep 	od	rt
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 With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Desc	scription, Pages					
	1-13		as originally filed				
	Clair						
		ns, Numbers	e e n en a				
	1-15		as originally filed				
2.	With lang	ith regard to the language , all the elements marked above were available or furnished to this Authority in the nguage in which the international application was filed, unless otherwise indicated under this item.					
	Thes	se elements were ava	ilable or furnished to this Authority in the following language: , which is:				
		the language of a trar	nslation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of public	cation of the international application (under Rule 48.3(b)).				
		the language of a trar Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under				
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:						
		contained in the inter	national application in written form.				
		filed together with the	e international application in computer readable form.				
		furnished subsequen	tly to this Authority in written form.				
		furnished subsequen	tly to this Authority in computer readable form.				
		The statement that the in the international ap	ne subsequently furnished written sequence listing does not go beyond the disclosure oplication as filed has been furnished.				
		The statement that the listing has been furni	ne information recorded in computer readable form is identical to the written sequence shed.				
4.	The	amendments have re	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
5.			established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).				
		(Any replacement sh report.)	neet containing such amendments must be referred to under item 1 and annexed to this				
6	Δdr	litional observations.	if necessary:				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IN 02/00193

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims No: Claims 1-15

Inventive step (IS)

Yes: Claims

res. Claims

No: Claims

Yes: Claims

1-15

1-15

No: Claims

2. Citations and explanations

Industrial applicability (IA)

see separate sheet

To section V

The following documents were cited in the search report and were considered for the examination of the present application:

D1: WO-A-9510514

D2: Chemical And Pharmaceutical Bulletin, Pharmaceutical Society Of Japan. Tokyo, Jp (11-1999), 42(II), 2285-2290

D3: Tetrahedron, Elsevier Science Publishers, Amsterdam, NI (1988), 44(19), 6197-6200

D4: EP-A-0270818 D5: WO-A-9631478

- (1) The present application relates to a process for the preparation of Desloratadine (8chloro-6,11-dihydro-11-(4-piperidylidene)-5H-benzo[5,6]cyclohepta[1,2-b]pyridine), acompound which is useful for the treatment of e.g. allergic asthma due to antihistaminic properties. The compound is prepared from a precursor with an ethoxycarbonyl group in position 1 of the piperidine moiety via saponification and decarboxylation. The essential feature of the claimed process is the use of an inorganic base in an alcoholic non-aqueous medium.
- (2) The documents of the prior art either refer to a saponification reaction using potassium hydroxide, water and ethanol (D1, page 52) or refer to an acidic hydrolysis employing hydrochloric acid (D5, page 26, line 12-14). Thus novelty is acknowledged for claims 1-15 (Art. 33(2) PCT).
- (3) Documents D2 and D3 relate to similar saponification reactions without using aqueous media starting from structurally different precursors which are considered comparable to the one of this application (D2, compound 4a; D3, example 3h). Thus in view of documents D2 and D3 a person skilled in the art would have been able to modify the process of D1 to arrive at the presently claimed procedure using neat alcohol. The description only refers to examples where neat alcohols and inorganic bases are used. However no direct comparison to the example of D1 (page 52) is shown which could possibly reveal a contribution over the prior art. It is acknowledged that the example of page 52 in D1 makes use of an inert atmosphere and the product is isolated via extraction with ethyl acetate. Thus the direct isolation and the omission of an inert atmosphere could be considered as an improvement over the prior art. However claim 1 refers to "isolating the compound by conventional methods", which

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EXAMINATION REPORT - SEPARATE SHEET

could also include e.g. an extraction step. Thus the involvement of an inventive step is not acknowledged (Art. 33(3) PCT).

(4) Claim 15 is not acceptable in view of Art. 6 PCT, since it should contain a reference to a preceding claim.

The expression "improved" has to be deleted from the claims (Art. 6 PCT).